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TITLE: Copper etching solution for printed circuits - contains ferric chloride or cupric chloride together with an acid and benzotriazole

PATENT-ASSIGNEE: LICENTIA PATENT-VERW GMBH[LICN]

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PATENT-FAMILY:

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BASIC-ABSTRACT:

Cu (alloys) are etched using an aq. soln. which contains Fe (III) chloride or Cu (II) chloride dihydrate, as well as an acid, pref. HCl and benzotriazole to eliminate an under-etch effect. In one pref. compsn. 40% Fe (III) chloride soln. may be used contg. an addn. of 36% HC6 at a concn. of 5 ml/1-500 ml/l (60 ml/l) and benzotriazole at a concn. of 0.1 g/l-20 g/l (3 g/l).

The addn. of an acid to the etch soln. prevents the formation of difficult-to-dissolve reaction products, which usually have an adverse effect on benzotriazole, the latter acting as an etch-protective coating on the sides of the etch pit.

TITLE-TERMS: COPPER ETCH SOLUTION PRINT CIRCUIT CONTAIN FERRIC CHLORIDE CUPRIC CHLORIDE ACID BENZOTRIAZOLE

DERWENT-CLASS: L03 M14

CPI-CODES: L03-D03C; L03-H04E; M14-A;